

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) Process for the preparation of a hydrocarbylated metal organic compound, comprising a hydrocarbyl group, a spectator ligand and optionally a ligand, by contacting a metal-organic reagent with a spectator ligand in the presence of at least 2 equivalents, with respect to the metal-organic reagent, of a hydrocarbylating agent.

2. (original) Process according to claim 1, wherein the hydrocarbylating agent comprises a metal or a metalloid chosen from group 1, 2, 11, 12, 13 or 14 is a metal or metalloid comprising agent.

3. (original) Process according to claim 2, wherein the hydrocarbylating agent comprises Li, Mg, Zn, or Al.

4. (currently amended) A process according to ~~claim 1-3~~ claim 1, wherein the spectator ligand is an imine ligand, or the HA adduct thereof, wherein HA represents an acid, of which H represents its proton and A its conjugate base.

5. (original) A process according to claim 4, wherein the metal of the metal-organic reagent is a group 3-11 metal.

6. (currently amended) A process according to ~~claim 1-3~~ claim 1, wherein the spectator ligand is represented by $(HA_1)_q (-Z)_n (A_2H)_r$, wherein A_1 and A_2 are monoacidic cyclopentadienyl comprising ligands, with q and r representing an integer denoting the number of Cp ligands with $q+r = 1$ or 2, optionally linked by n bridging groups Z, A_1 , A_2 separately, or bonded via Z together forming a bidentate diacidic spectator ligand and n being an integer denoting the number of parallel bridging groups Z.

7. (currently amended) A process according to ~~claim 1-3~~ claim 1, wherein the ligand is a ligand according to the formula $HCp^*-Z-Y(H)_b$, in which Cp^* is a delocalized η^5 bonding cyclopentadienyl comprising ligand, Z is a moiety comprising boron, or a

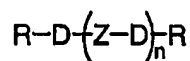
member of Group 14, and also sulfur or oxygen, said moiety having up to 20 non-hydrogen atoms, and optionally Cp* and Z together form a fused ring system and b=0 or 1.

8. (currently amended) A process according to claim 6 ~~or 7~~, wherein the metal is a group 4, or 5 metal or metalloid, or a metal selected from the lanthanide series.

9. (currently amended) A process according to ~~claims 1 to 3~~ claim 1, wherein the ligand, represented by (Ar-Z)_sY(-Z-R'_n)_q, with, Y representing an anionic moiety, Z an optional bridging group between the Y moiety and the DR'_n and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with q + s ≥ 1.

10. (original) A process according to claim 9, wherein the metal is a group 4 metal with a valency of 3.

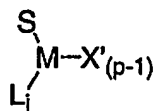
11. (currently amended) A process according to ~~claim 1-3~~ claim 1, wherein the ligand is represented by



wherein Z is a bridging group, between two donor atom containing groups (D), D an electron-donating group comprising a hetero atom chosen from group 15 or 16, and R is a substituent.

12. (original) A process according to claim 11, wherein the metal is a metal from group 7-11.

13. (original) Hydrocarbylated metal organic compound according to formula 10,



(formula 10)

containing a spectator ligand S equal to (Ar-Z)_sY (-Z-DR'_n)_q, with, R an optional bridging group between the Y moiety and the DR'_n and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with q + s ≥ 1, X' is an hydrocarbyl radical bonded to the group 4-6 metal M with a reduced oxidation state p, L a neutral Lewis basic ligand bonded to M, j representing an integer denoting the number of ligands L, characterized in that Y is an imine group.

14. (original) Hydrocarbylated metal organic compound according to claim 13 wherein the imine is a ketimide, phosphinimide, guanidine, or iminoimidazoline.

15. (original) Hydrocarbylated metal organic compound according to claim 14, comprising a group 4-6 metal M in the reduced oxidation state, further comprising a spectator ligand having an imine group wherein Y, R and D are part of an aromatic ring system, optionally containing sp³, sp² or sp hybridized atoms or combinations thereof.

16. (currently amended) Hydrocarbylated metal organic compound according to ~~claim 13-15~~ claim 13, wherein the electron donating hetero atom containing group DR'_n is a ketimide, phosphinimide, guanidine, or iminoimidazoline.

17. (original) Hydrocarbylated metal organic compound according to formula 10, containing a spectator ligand S equal to (Ar-Z)_sY(-Z-DR'_n)_q, wherein Y represents an anionic moiety of S bonded to M of the metal-organic compound, Z an optional bridging group between the Y moiety and the DR'_n and/or Ar group, D an electron-donating hetero atom chosen from group 15 or 16, R' an optional substituent, Ar an electron-donating aryl group, n the number of R' groups bonded to D, q and s integers with q + s ≥ 1, X' is an hydrocarbyl radical bonded to M with valency p, L a neutral ligand bonded to M, j representing an integer denoting the number of ligands L, characterized

in that the electron donating hetero atom containing group DR'_n is a ketimide, phosphinimide, guanidine, or an iminoimidazoline.

18. (currently amended) Process for the preparation of a polyolefin in the presence of an activator, characterized in that the process is carried out in the presence of a metal-organic compound according to ~~any of the claims 13 to 17~~ claim 13.

19. (original) Process according to claim 19, wherein the activator is a borane or a borate.